

	A	B	C	D	E	F	G	H	I	J	K	L								
1	<b>UCL Statistics for Data Sets with Non-Detects</b>																			
2																				
3	User Selected Options																			
4	Date/Time of Computation 10/22/2015 2:52:16 PM																			
5	From File WorkSheet.xls																			
6	Full Precision OFF																			
7	Confidence Coefficient 95%																			
8	Number of Bootstrap Operations 2000																			
9																				
10	<b>HxCDF</b>																			
11																				
12	<b>General Statistics</b>																			
13	Total Number of Observations 31				Number of Distinct Observations 30															
14	Number of Detects 18				Number of Non-Detects 13															
15	Number of Distinct Detects 18				Number of Distinct Non-Detects 12															
16	Minimum Detect 3.3000E-5				Minimum Non-Detect 9.7600E-6															
17	Maximum Detect 2.4000E-4				Maximum Non-Detect 1.0900E-4															
18	Variance Detects 3.5251E-9				Percent Non-Detects 41.94%															
19	Mean Detects 1.1987E-4				SD Detects 5.9373E-5															
20	Median Detects 1.1900E-4				CV Detects 0.495															
21	Skewness Detects 0.319				Kurtosis Detects -0.843															
22	Mean of Logged Detects -9.164				SD of Logged Detects 0.563															
23																				
24	<b>Normal GOF Test on Detects Only</b>																			
25	Shapiro Wilk Test Statistic 0.956				<b>Shapiro Wilk GOF Test</b>															
26	5% Shapiro Wilk Critical Value 0.897				Detected Data appear Normal at 5% Significance Level															
27	Lilliefors Test Statistic 0.122				<b>Lilliefors GOF Test</b>															
28	5% Lilliefors Critical Value 0.209				Detected Data appear Normal at 5% Significance Level															
29	<b>Detected Data appear Normal at 5% Significance Level</b>																			
30																				
31	<b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>																			
32	Mean 7.6680E-5				Standard Error of Mean 1.2757E-5															
33	SD 6.8161E-5				95% KM (BCA) UCL 1.0357E-4															
34	95% KM (t) UCL 9.8331E-5				95% KM (Percentile Bootstrap) UCL 9.9092E-5															
35	95% KM (z) UCL 9.7663E-5				95% KM Bootstrap t UCL 9.8829E-5															
36	90% KM Chebyshev UCL 1.1495E-4				95% KM Chebyshev UCL 1.3228E-4															
37	97.5% KM Chebyshev UCL 1.5635E-4				99% KM Chebyshev UCL 2.0361E-4															
38																				
39	<b>Gamma GOF Tests on Detected Observations Only</b>																			
40	A-D Test Statistic 0.295				<b>Anderson-Darling GOF Test</b>															
41	5% A-D Critical Value 0.743				Detected data appear Gamma Distributed at 5% Significance Level															
42	K-S Test Statistic 0.114				<b>Kolmogorov-Smirnov GOF</b>															
43	5% K-S Critical Value 0.205				Detected data appear Gamma Distributed at 5% Significance Level															
44	<b>Detected data appear Gamma Distributed at 5% Significance Level</b>																			
45																				
46	<b>Gamma Statistics on Detected Data Only</b>																			
47	k hat (MLE) 3.854				k star (bias corrected MLE) 3.248															
48	Theta hat (MLE) 3.1106E-5				Theta star (bias corrected MLE) 3.6902E-5															
49	nu hat (MLE) 138.7				nu star (bias corrected) 116.9															
50	MLE Mean (bias corrected) 1.1987E-4				MLE Sd (bias corrected) 6.6509E-5															



